



(microcapsule OR microparticle) AND (replace

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Scholar Results 1 - 4 of 4 for **(microcapsule OR microparticle) AND (replacement OR repair) AND polymer AND ("self-healing" OR "self-sealing" OR "self-repair")**

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[D Abbott](#)

[Assessment of self-healing polymer technology for utility overhead applications - group of 3 »](#)

BS Bernstein - Electrical Insulation Magazine, IEEE, 2006 - ieeexplore.ieee.org

... crack tip propagates and approaches the **microcapsule**, which then rup ... in Nature [2],  
an epoxy **polymer** was mentioned ... a) develop- ment of a **self-repair** system that ...

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**SELF-HEALING POLYMER COMPOSITIONS**

A Skipor - US Patent 7,108,914 - Google Patents

... Dry et al., "Passive smart self-repair in polymer ... it causes product failure, which  
creates **replacement** costs ... has been attached to the **microcapsule** according to ...

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[Electrical cable with self-repairing protection - group of 3 »](#)

S Belli, L Caimi, C Bosisio, A Bareggi, L Balconi, ... - US Patent 6,664,476, 2003 - Google Patents

... which is capable of solidifying rapidly once the **microcapsule** has beenbroken. ... 1A,  
an expanded **polymer** layer (5) as described above, placed ... 20 repair the damage ...

Related Articles - Web Search

[Development and Evaluation of Sensor Concepts for Ageless Aerospace Vehicles - group of 2 »](#)

D Abbott, B Doyle, J Dunlop, A Farmer, M Hedley, J ... - Report, 2001 - techreports.larc.nasa.gov

... consider the implications of **self-healing** materials for ... possible scenarios for damage

detection and **repair**. ... regeneration cannot be simple **replacement**: it must ...

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(microcapsule OR microparticle) AN

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[R Scaringe](#)

[J Sollecito](#)

[L Grzyl](#)

[J Short](#)

[Adsorption cooling device and method for hazardous materials suits - group of 2 »](#)

CF Parrish, RP Scaringe - US Patent 5,289,695, 1994 - Google Patents  
Attorney, Agent, or Firm—Evenson, McKeown, Edwards & Lenahan [57] ABSTRACT  
A relatively lightweight cooling device and method utilizing adsorption of ...  
Cited by 8 - Related Articles - Web Search

[Cooling device and method for hazardous materials suits - group of 2 »](#)

CF Parrish, RP Scaringe - US Patent 5,111,668, 1992 - Google Patents  
[57] ABSTRACT A relatively lightweight cooling device and method utilizing adsorption of perspirated water vapor to permit evaporative cooling of a ...  
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[Innovation adsorption heating and cooling device for micro-climate applications - group of 2 »](#)

CF Parrish, RP Scaringe - US Patent 5,291,750, 1994 - Google Patents  
US PATENT DOCUMENTS 2,024,083 12/1935 Young 62/480 4,610,148 9/1986 Shelton  
62/480 4,881,376 11/1989 Yoneyawa et al 62/480 Primary Examiner—John M. ...  
Cited by 4 - Related Articles - Web Search

[Spacecraft adsorption thermal storage device using a vapor compression heat pump - group of 2 »](#)

RP Scaringe, CF Parrish, LR Grzyl - US Patent 5,142,884, 1992 - Google Patents  
FOREIGN PATENT DOCUMENTS 3322425 1/1985 Fed. Rep. of Germany 62/324.4 Primary  
Examiner—Albert J. Makay Assistant Examiner—William C. Doerrler ...  
Cited by 4 - Related Articles - Web Search

[\[CITATION\] Solvents, industrial](#)

CF Parrish - Kirk-Othmer encyclopedia of chemical technology, 1983  
Cited by 3 - Related Articles - Web Search

[Operation, Modeling and Analysis of the Reverse Water Gas Shift Process - group of 3 »](#)

JE Whitlow, CF Parrish - AIP Conference Proceedings, 2003 - link.aip.org  
Operation, Modeling and Analysis of the Reverse Water Gas Shift Process. [AIP  
Conference Proceedings 654, 1116 (2003)]. Jonathan E. Whitlow, Clyde F. Parrish. ...  
Cited by 2 - Related Articles - Web Search - BL Direct

[Solvent having high flash point - group of 3 »](#)

BE Douda, CF Parrish, JE Short Jr - US Patent 4,260,509, 1981 - Google Patents  
[75] Inventors: Bernard E. Douda, Bloomfield; Clyde F. Parrish, Terre Haute;  
James E. Short, Jr., Switz City, all of Ind. ... [73] Assignee: The United ...  
Cited by 2 - Related Articles - Web Search

[Laser Induced Decomposition of 1, 4-Dioxane](#)

E Watson Jr, CF Parrish - Journal of Chemical Physics, 2003 - link.aip.org  
Laser Induced Decomposition of 1,4-Dioxane. [The Journal of Chemical  
Physics 54, 1427 (1971)]. E. Watson, Jr., CF Parrish.  
Cited by 2 - Related Articles - Web Search

[Closed end launch tube \(CELT\) - group of 6 »](#)

DE Lueck, CF Parrish - AIP Conference Proceedings, 2006 - link.aip.org  
As an alternative to magnetic propulsion for launch assist, the authors propose a pneumatic launch assist system. Using off-the-shelf components, coupled ...  
Cited by 1 - Related Articles - Web Search - BL Direct

[\[CITATION\] Development of an Innovative Spacecraft Thermal Storage Device](#)

CF Parrish, RP Scaringe, DM Pratt - IECEC  
Cited by 1 - Related Articles - Web Search

[High temperature decomposition of hydrogen peroxide - group of 7 »](#)

CF Parrish - US Patent 6,955,799, 2005 - Google Patents

Page 1. United States Patent Parrish (54) HIGH TEMPERATURE DECOMPOSITION OF HYDROGEN PEROXIDE (75) Inventor: Clyde F. Parrish, Melbourne, FL (US) ...  
Cited by 1 - Related Articles - Web Search

Water purification method - group of 3 »

CF Parrish - US Patent 5,141,531, 1992 - Google Patents  
Groth et al 55/33 Hussmann 55/179 Michel et al 55/33 Hussmann 55/33 Primary  
Examiner—Charles Hart Attorney, Agent, or Firm—Evenson, Wands, Edwards, ...  
Cited by 1 - Related Articles - Web Search

Development of an innovative spacecraft thermal storage device - group of 3 »

CF Parrish, RP Scaringe, DM Pratt - IN: IECEC'91; Proceedings of the 26th Intersociety Energy ..., 1991 - adsabs.harvard.edu

Several adsorbent-refrigerant pairs have been examined which demonstrate that the innovative heat-pump-adsorption storage device (HPASD) presented can ...  
Cited by 1 - Related Articles - Web Search

[CITATION] Enc. Chem. Technol

CF Parrish - 3rd

Cited by 1 - Related Articles - Web Search

Method for production of spacecraft-grade N. sub. 2 O. sub. 4 - group of 2 »

LR Grzyl, CF Parrish, LP Barthel-Rosa - US Patent 5,264,198, 1993 - Google Patents  
3,674,429 7/1972 Collins 423/400 - 3,904,740 9/1975 Kenson et al. . 3,985,681  
10/1976 Sénès et al. . 4,024,219 5/1977 Takahashi et al 423/400 4,375,426 ...  
Related Articles - Web Search

Thermal storage heat pipe - group of 2 »

RP Scaringe, LR Grzyl, CF Parrish - US Patent 5,217,063, 1993 - Google Patents  
59191 5/1981 Japan 165/32 Primary Examiner—Albert W. Davis, Jr. Attorney,  
Agent, or Firm—Evenson, McKeown, Edwards & Lenahan [57] ABSTRACT A thermal ...  
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Solid-state Polymerization of 1, 2, 3, 4-Diepoxybutane Initiated by Cobalt-60 7-Radiation

CF PARRISH - doi.wiley.com

Solid-state polymerizations initiated by 7-radiation have been reported for both vinyl and cyclic monomers. 12 Most investigations of cyclic monomers have ...  
Web Search

Lightweight Passive Microclimate Cooling Device

... ENGINEERING CORP ROCKLEDGE FL, CF Parrish, RP ... - 1993 - stinet.dtic.mil  
Abstract : The intermittent adsorption cooling concept has been successfully demonstrated and has produced cooling rates in the 300 W range. The design ...  
Cached - Web Search

Radiation-Polymerization Binder for Mk 48 Decoy Flares

... DEPOT CRANE IND, CF Parrish, JE Short Jr, WT ... - 1973 - stinet.dtic.mil  
An alternate method for production of Mk 48 flares is described. This method is based on the radiation polymerization of a binder/oxidizer system. ...  
Cached - Web Search

[CITATION] Kinetics and mechanism of the liquid phase, radiation induced, solution polymerization of ethylene

CF Parrish - 1962 - University of Louisville

Web Search - Library Search

Buffer gas acquisition and storage - group of 5 »

CF Parrish, DE Lueck, PA Jennings - AIP Conference Proceedings, 2006 - link.aip.org  
The acquisition and storage of buffer gases (primarily argon and nitrogen) from the Mars atmosphere provides a valuable resource for blanketing and ...  
Web Search - BL Direct

Photolysis of gaseous 1, 4-dioxane at 1470 Ang

RR Hertz, CF Parrish - The Journal of Physical Chemistry, 1971 - pubs.acs.org  
(7) T. H. Elmer, ID Chapman, and ME Nordberg, J. Phys. ... Chem., 67, 2219  
(1963). (8) I. D. Chapman and M. L. Hair, J. Catal., 2, 145 (1963). (9) H. ...  
Web Search

Phase diagram and X-ray diffraction analysis of the acrylic acid-acrylamide system

CF Parrish, GL Kochanny, HW Rinn - Journal of Polymer Science Part A-1 Polymer Chemistry, 1969 - doi.wiley.com  
Page 1. JOURNAL OF POLYMER SCIENCE: PART A-1 VOL. 7, 2531-2535 (1969) Phase Diagram and X-Ray Diffraction Analysis of the Acrylic Acid-Acrylamide System ...  
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[Space Colonization - group of 4 »](#)

CF Parrish - Aerospace America, 2004 - aiaa.org

2004 has been a pivotal year for space colonization, with the January 21 announcement by President Bush outlining a new vision for space ...

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[Radiation induced polymerization. 1- A pyrotechnic binder\(Irradiation curing process for producing ...](#)

WT BIGGS, CF PARRISH - 1971 - csa.com

Radiation induced polymerization. 1- A pyrotechnic binder(Irradiation curing process for producing pyrotechnic materials- flares). WT BIGGS, CF PARRISH 1971. ...  
Web Search

[Radiation-induced polymerization. I. A pyrotechnic binder](#)

WT Biggs, CF Parrish - Journal of Applied Polymer Science, 1972 - stinet.dtic.mil

It is the intent of the work described in the report to illustrate a process which readily lends itself to an irradiation curing process, viz., the production of ...  
Cached - Web Search

[High performance immobilized liquid membrane for carbon dioxide separations - group of 3 »](#)

CF Parrish - US Patent 6,958,085, 2005 - Google Patents

Page 1. United States Patent Parrish (54) HIGH PERFORMANCE IMMOBILIZED LIQUID MEMBRANE FOR CARBON DIOXIDE SEPARATIONS (75) Inventor ...  
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